

AMENDMENTS TO THE CLAIMS

Claims 1-26 (Canceled)

Claim 27 (Currently Amended): A process for producing a three-dimensional object ~~comprising by providing a layer of a pulverulent substrate and use of lasers, characterized in that~~

providing a layer of a pulverulent substrate,

selectively applying an absorber in a suspension or a liquid absorber ~~is selectively applied~~ via an inkjet process to a region ~~the regions~~ to be sintered, and

~~selective~~ selectively melting of ~~regions of the powder layer~~ regions of the layer of the pulverulent substrate by ~~means of introduction of~~ introducing electromagnetic energy via a laser whose wavelength is ranges from 100 to 3000 nm.

Claim 28 (Currently Amended): The process for producing a three-dimensional object as claimed in claim 27, ~~characterized in that it comprises the steps of~~ comprising

- a) providing a layer of a pulverulent substrate
- b) controlling the temperature of ~~the~~ a manufacturing chamber
- c) selectively applying an absorber in a suspension or a liquid absorber is ~~selectively applied~~ via an inkjet process to a region ~~the regions~~ to be sintered
- d) ~~application of~~ applying other specific liquids or suspensions with certain properties
- e) ~~selective~~ selectively melting of ~~regions of the powder layer~~ regions of the layer of the pulverulent substrate by ~~means of introduction of~~ introducing electromagnetic energy via a laser of wavelength from 100 to 3000 nm

f) cooling of the molten and non-molten regions to a temperature which allows the moldings to be removed intact

g) ~~removal of~~ removing the moldings.

Claim 29 (Currently Amended): The process as claimed in claim 28, ~~characterized in that step~~ wherein e) is first carried out once, and then ~~steps~~ a) to d) are carried out once, and then ~~step~~ b) is carried out and ~~step~~ a) is carried out again once, and then the other steps are carried out in the sequence c), d), a), b), and e).

Claim 30 (Currently Amended): The process as claimed in claim 27, ~~characterized in that~~ wherein the pulverulent substrate used has a median grain size of from 10 to 150 μm .

Claim 31 (Currently Amended): The process as claimed in claim 27, ~~characterized in that use is made of a~~ wherein said laser ~~of~~ has a wavelength from 800 to 1070 nm.

Claim 32 (Currently Amended): The process as claimed in claim 27, ~~characterized in that use is made of a~~ wherein said laser ~~of~~ has a wavelength from 1900 to 2100 nm.

Claim 33 (Currently Amended): The process as claimed in claim 27, ~~characterized in that use is made of~~ wherein said laser is an Nd:YAG laser.

Claim 34 (Currently Amended): The process as claimed in claim 27, ~~characterized in that use is made of~~ wherein said laser is a diode laser.

Claim 35 (Currently Amended): The process as claimed in claim 27, ~~characterized in that use is made of a~~ wherein said laser is a laser with unfocused, linear or spread beam.

Claim 36 (Currently Amended): The process as claimed in claim 27, ~~characterized in that~~ wherein the absorber comprises colorants.

Claim 37 (Currently Amended): The process as claimed in claim 36, ~~characterized in that~~ wherein the absorber comprises pigments.

Claim 38 (Currently Amended): The process as claimed in claim 36, ~~characterized in that~~ wherein the absorber comprises dyes.

Claim 39 (Currently Amended): The process as claimed in claim 27, ~~characterized in that~~ wherein the absorber comprises carbon black, CHP, animal charcoal, graphite, carbon fibers, chalk, or interference pigments.

Claim 40 (Currently Amended): The process as claimed in claim 27, ~~characterized in that~~ wherein the absorber comprises other components alongside carbon black, CHP, animal charcoal, graphite, carbon fibers, chalk, or interference pigments.

Claim 41 (Currently Amended): The process as claimed in claim 27, ~~characterized in that~~ wherein the absorber comprises flame retardants based on phosphorus or melamine cyanurate.

Claim 42 (Currently Amended): The process as claimed in claim 36, ~~characterized in that wherein~~ the absorber also comprises distilled water, or alcohol, or solvent.

Claim 43 (Currently Amended): The process as claimed in claim 36, ~~characterized in that wherein~~ the absorber also comprises a surfactant and/or wetting agent and/or biocide and/or moisture retainer.

Claim 44 (Currently Amended): The process as claimed in claim 27, ~~characterized in that wherein~~ the pulverulent substrate ~~used~~ comprises polymers.

Claim 45 (Currently Amended): The process as claimed in claim 27, ~~characterized in that wherein~~ the pulverulent substrate ~~used~~ comprises sand, metal particles, or ceramic particles, which have been encapsulated by a polymeric material.

Claim 46 (Currently Amended): The process as claimed in claim 44, ~~characterized in that wherein~~ the polymer is a homo- or copolymer preferably selected from the group consisting of polyester, polyvinyl chloride, polyacetal, polypropylene, polyethylene, polystyrene, polycarbonate, polybutylene terephthalate, polyethylene terephthalate, polysulfone, polyarylene ether, polyurethane, thermoplastic elastomers, polylactides, polyoxyalkylenes, poly(Nmethylmethacrylimides) (PMMI), polymethyl methacrylate (PMMA), ionomer, polyamide, copolyester, copolyamides, silicone polymers, terpolymers, acrylonitrilebutadiene-styrene copolymers (ABS), and mixtures thereof.

Claim 47 (Currently Amended): The process as claimed in claim 44, ~~characterized in that use is made of a~~ wherein said pulverulent substrate ~~which~~ comprises from 0.05 to 5% by weight of a powder-flow aid.

Claim 48 (Currently Amended): The process as claimed in claim 44, ~~characterized in that use is made of a~~ wherein said pulverulent substrate ~~which~~ comprises inorganic fillers.

Claim 49 (Currently Amended): The process as claimed in claim 44, ~~characterized in that~~ wherein the filler ~~used~~ comprises glass beads.

Claim 50 (Currently Amended): The process as claimed in claim 44, ~~characterized in that use is made of a~~ wherein said pulverulent substrate ~~which~~ comprises inorganic or organic pigments.